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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/439,608 | 11/12/1999 | GARY LENNEN | 59514/WEP/RS | 1855 |
| 75 | 590 03/07/2003 | | | |
| WILLIAM E PELTON COOPER & DUNHAM LLP 1185 AVENUE OF THE AMERICAS | | | EXAMINER | |
| | | | KUMAR, PANKAJ | |
| NEW YORK, NY 10036 | | | ART UNIT | PAPER NUMBER |
| | | | 2631 | |
| | | | DATE MAILED: 03/07/2003 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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| Application No. G94/39,608 Examiner Parkaj Kumar 2631 | | | م)) | | | | | |
|---|---|-----------------------------------|----------------|--|--|--|--|--|
| ## Defice Action Summary Examiner | | Application No. | | | | | | |
| Pankaj Kumar 2631 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Education of time may be available under the provision of 37 CPR 1.136(a). In no event, however, may a reply be timely filed of sets SIX (9) MONTHS from the mailing date of this communication. It is a statistic precised statistic provision and statistics precised statistics provised statistics precised sta | | 09/439,608 | LENNEN, GARY | | | | | |
| Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edentions of the mey be swilled under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (5) MONTHS from the mailing date of this communication. Edentions of them may be swilled under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (5) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory priority dilepply and will septe SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or estandate period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than these membra after the mailing date of this communication, even if timely filled, may reduce any searce platent turn adjustment. Set 37 CFR 1.76(b). Status 1) Sesponsive to communication(s) filled on 12/20/2002. 2a) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-16 is/are rejected. 7) Claim(s) 1-16 is/are rejected to 2.3 (a) Since this application is in condition and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filled on is/are. a) = accepted or b objected to by the Examiner. Application Papers 9) The specification is objected to the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The orth or declaration is objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The proposed drawing correction filed on is an approved by the Examiner. Priority under 35 U.S.C. § 119 and 120 13) Some * | Office Action Summary | Examiner | Art Unit | | | | | |
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| Attachment(s) | | - | | | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 6) Other: | 2) Dotice of Draftsperson's Patent Drawing Review (PTO-948) | 5) Notice of Informal | | | | | | |

Art Unit: 2631

DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed 12/16/2002 have been fully considered but they are not persuasive for claims 1-6.
- 2. For the new W-code limitation added to claims 1, 4, 5 and 6:
- 3. It has been held that a recitation with respect to-the manner in which a claimed apparatus is intended to be employed (in this case using W-code rather than estimate) does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).
- 4. Lacking any criticality, changing the form or shape of prior art parts (in this case, changing the estimate signal to W-code signal) does not make the claimed invention patentable over that prior art (In re Dailey, 149 USPQ 47).
- 5. Claims 7 to 16 are allowed. See prior action for details.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Counselman.
- 8. As per claim 1, an apparatus for tracking signals (Counselman fig. 7) comprising: a first tracker (Counselman fig. 7: 230) for tracking a first component (Counselman fig. 11: 874) of a first signal (Counselman fig. 7: 194) and for generating a first W-code signal (Counselman does

Page 2

Art Unit: 2631

not have W-code. What Counselman does have is an estimate with fig. 7: 228; "One bit C/A code local model 228 is a sequence of bit values representing the C/A code specific to GPS satellite 12. This sequence is output from C/A code generator 230 at times in accordance with the estimated arrival time of the C/A sequence from the GPS satellite to which C/A code generator 230 has been assigned by satellite assignment 41 from real time computer 40.", It would have been obvious to one skilled in the art at the time of the invention to modify Counselman to have W-code instead of estimate since it has been held that a recitation with respect to-the manner in which a claimed apparatus is intended to be employed (in this case using W-code rather than estimate) does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPO2d 1647 (1987). Also, lacking any criticality, changing the form or shape of prior art parts (in this case, changing the estimate signal to W-code signal) does not make the claimed invention patentable over that prior art (In re Dailey, 149 USPQ 47).) from a second component (Counselman fig. 11: 460 is derived from 194 and thus it is a component of 194) of the first signal (Counselman fig. 11:194); a second tracker (Counselman fig. 10: 412) for tracking a first component (Counselman fig. 10: 222) of a second signal (Counselman fig. 10: from 220) according to the first estimate signal (Counselman fig. 10: 228 is the first estimate signal which is used in combination with other signals derived from 222 to determine input into 412); and the second component (Counselman fig. 11: 460) of the first signal has the same pattern (same pattern being that both inputs into the comparator are sinusoids) as the first component (Counselman fig. 10: 222) of the second signal.

Art Unit: 2631

9. As per claim 2, an apparatus according to claim 1, wherein the pattern comprises: a known pattern (Counselman fig. 11: 458) combined with an unknown pattern (Counselman fig. 11: 194).

Page 4

- 10. As per claim 3, an apparatus according to claim 2, wherein timing information about the unknown pattern is known (Counselman fig. 11: 456 is t from 36 which effectively clocks 194).
- 11. As per claim 4, an apparatus according to claim 3, wherein: the first tracker (Counselman fig. 7: 230) generates a timing signal (Counselman "This sequence is output from C/A code generator 230 at times in accordance with the estimated arrival time of the C/A sequence from the GPS") in accordance with the timing information (Counselman fig. 11: 456: t from 36) for improving the accuracy of the first W-code signal (discussed in the discussion of claim 1).
- As per claim 5, an apparatus according to claim 2, wherein: the first tracker (Counselman fig. 7: 230) generates a first local component signal (Counselman fig. 11: 460) in accordance with the known pattern (Counselman fig. 7: 458) and combines the local component signal (Counselman fig. 11: 460) with a version of the first signal (Counselman fig. 7: 194) to generate the first W-code signal (discussed in the discussion of claim 1).
- 13. As per claim 6, an apparatus according to claim 2, wherein: the second tracker (Counselman fig. 10: 412) generates a second local component signal (Counselman fig. 10: 414) in accordance with the known pattern (Counselman fig. 11: 458 is the known pattern which is supplied to fig. 10 in order to generate 414) and combines the second local component signal (Counselman fig. 10: 414) with at least one version of the second signal (Counselman fig. 10: from 220 whose version is in 418 which is combined with 414 for 200) to generate at least one second W-code signal (discussed in the discussion of claim 1).

Application/Control Number: 09/439,608 Page 5

Art Unit: 2631

Allowable Subject Matter

14. Claims 7-16 are allowed.

15. The following is an examiner's statement of reasons for allowance: See prior action.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2631

Conclusion

Page 6

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pankaj Kumar whose telephone number is (703) 305-0194. The examiner can normally be reached on Monday through Thursday after 8AM to after 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on (703) 305-4378. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800.

PK

March 5, 2003

TESFALIZE BECY/